

Form PTO-1049 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Attorney Docket No. C152 1160.1	Serial No. 10/621,639
	Applicant Howard et al.	
	Filing Date July 17, 2003	Group 1725

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
Hld	A	5,531,423	07/96	Crafton et al.	266	44	
	B	5,565,046	10/96	Crafton et al.	148	538	
	C	5,294,094	03/94	Crafton et al.	266	44	
	D	5,350,160	09/94	Crafton et al.	266	252	
	E	5,354,038	10/94	Crafton	266	44	
	F	5,439,045	08/95	Crafton	164	5	
	G	5,551,998	09/96	Crafton et al.	148	538	
	H	5,738,162	04/98	Crafton	164	5	
	I	4,340,433	07/82	Harding	148	16	
	J	4,604,055	08/86	Mackenzie	432	58	
	✓	K	4,648,836	03/87	Thom	432	107

FOREIGN PATENT DOCUMENTS

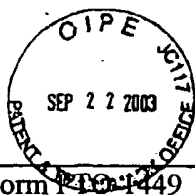
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							Yes	No
Hld ↓ ↓ ↓ ↓	L	2074022	09/85	Japan				
	M	5939464	08/82	Japan				
	N	59219410	12/84	Japan				
	O	5825860	02/83	Japan				
	P	5653867	05/81	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Hld	Q	Economical Used Energy Type Continuing Heat Treating Furnace For Aluminum Castings Dogyo - Kanetsu Vol. 21 No. 2 Pages 29-36 - March 1984
	R	Brochures describing Beardsley & Pipe PNEU-RECLAIM Sand Reclamation Units Prior to August 13, 1992
✓	S	Brochure describing Fataluminum Sand Reclamation Units - Prior to August 13, 1992

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE: E. H. Liu	DATE CONSIDERED: 6/15/04
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Form PTO-1449

Attorney Docket No.
C152 1160.1Serial No.
10/621,639

INFORMATION DISCLOSURE CITATION

Applicant
Howard et al.

(Use several sheets if necessary)

Filing Date
July 17, 2003Group
175

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
g.h.k.	T	4,392,814	07/83	Harding	431	170	
	U	4,478,572	10/84	Selli	432	13	
	V	4,415,444	11/83	Guptail	209	3	
	W	4,411,709	10/83	Nakanishi	148	3	
	X	4,700,766	10/87	Godderidge	164	5	
	Y	4,620,586	11/86	Musschoot	164	253	
	Z	3,871,438	03/75	Vissers et al.	164	5	
	AA	4,140,467	02/79	Ellison et al.	432	72	
	AB	5,253,698	10/93	Keough et al.	164	269	
	AC	4,457,352	07/84	Scheffer	164	5	
	AD	4,579,319	04/86	Sasaki	266	252	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
g.h.k.	AE	2230720	10/90	UK	B220	29/00		
	AF	0234810	03/85	USSR	164	132		
	AG	6316853	01/88	Japan	164	132		
	AH	3206048	02/82	Germany				
	AI	2307773	02/73	Germany				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

g.h.k.	AJ	Paul M. Crafton - Heat Treating Aging System Also Permits Core Sand Removal - Reprinted from 09/89 Modern Castings magazine

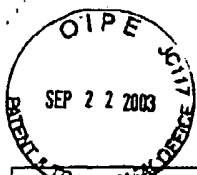
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	Filing Date July 17, 2003	Group 1725

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
J.H.K.	AK	2,988,351	06/61	Barnett et al.	263	40	
	AL	4,211,274	07/80	Slowinski et al.	164	401	
	AM	4,294,436	10/81	Takahashi	266	257	
	AN	3,534,946	10/70	Westerkamp et al.	263	28	
	AO	4,577,671	03/86	Stephan	164	401	
	AP	4,544,013	10/85	Kearney et al.	164	5	
	AQ	4,955,425	09/90	McKenna	164	269	
	AR	4,582,301	04/86	Wunning	266	87	
	AS	3,737,280	06/73	Crompt	432	14	
AT	5,423,370	06/95	Bonnemersou et al.	164	132		

FOREIGN PATENT DOCUMENTS

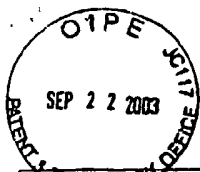
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
J.H.K.	AU	6092040	05/85	Japan	164	132		
	AV	4012158	1989	Germany	164	5		
	AW	1129012	07/82	USSR				
	AX	2914221	04/79	Germany				
	AY	1569152	06/80	UK				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

J.H.K.	AZ	Sales brochure describing Thermfire Brand Sand Reclamation, Gudgeon Bros., Ltd. believed to be known to others prior to 09/89
	BA	Sales brochure describing Simplicity/Richards Gas-Fired Thermal Reclamation System Simplicity Engineering, Inc. - believed to be known to others prior to 09/89

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	Applicant Howard et al.	
	Filing Date July 17, 2003	Group 175

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
J.H.K.	BB	4,161,389	07/79	Staffin et al.	432	58	
	BC	4,519,718	05/85	Staffin et al.	374	45	
	BD	4,457,788	07/84	Staffin et al.	148	20.3	
	BE	5,378,434	01/95	Staffin et al.	422	141	
	BF	5,018,707	05/91	Hemsath et al.	266	254	
	BG	5,251,683	10/93	Backer	164	98	
	BH	4,547,228	10/85	Girrell et al.	148	16	
	BI	4,671,496	06/87	Girrell et al.	266	78	
	BJ	4,512,821	04/85	Staffin et al.	148	16.5	
	BK	4,524,957	06/85	Staffin et al.	266	252	
	BL	4,779,163	10/88	Bickford et al.	361	212	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
J.H.K.	BM	2337894	11/74	Germany	B08b	7/04		
	BN	1,564151	04/80	UK				
	BO	2315958	04/74	Germany	B08b	5/00		
	BP	7043571	12/70	France	15/00	11/00		
	BQ	1392405	04/75	UK	25/00	33/18		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

J.H.K.	BR	Sales brochure describing AirTrac Brand Fluidizing Conveyor, Air Trac Systems Corp., believed to be known to others prior to 09/89
	BS	Sales brochure describing Fluid Bed Calcifer Thermal Sand Reclamation Systems, Dependable Foundry Equipment Co. - Believed to be known to others prior to 09/89
	BT	Foundry Management & Technology - 12/89 - Vol. 117; No. 12; Pg. G3 - Shakeout/Cleaning/ Finishing Brochure

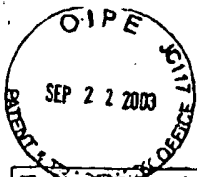
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J. H. Kim

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6/15/04



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	Applicant Howard et al.	
	Filing Date July 17, 2003	Group 125

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
gfk	BU	5,169,913	12/92	Staffin et al.	526	65	
	BV	4,613,713	09/86	Staffin et al.	585	241	
	BW	4,068,389	01/78	Staffin et al.	34	57A	
	BX	4,623,400	11/86	Japka et al.	148	6.35	
	BY	3,760,800	09/73	Staffin et al.	128	24.1	
	BZ	4,830,605	05/89	Hodate et al.	431	170	
	CA	4,242,077	12/80	Hyre	431	19	
	CB	2,813,318	11/57	W. Horth	22	89	
	CC	4,681,267	07/87	Leidel et al.	241	23	
	CD	2,385,962	10/45	C.A. Barnett	34	13	
	CE	5,850,866	12/98	Crafton	164	5	

FOREIGN PATENT DOCUMENTS

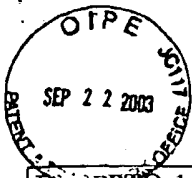
		Document Number	Date	Country	Class	Subclass	Translation	
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gfk	CF	1197981	12/85	Canada	38	18		
	CG	2104164	08/90	Japan				
	CH	62110248		Japan				
	CI	63108941	05/88	Japan				
	CJ	2323805	05/73	German				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

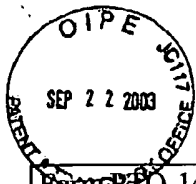
gfk	CK	Aluminum Solution Heat Treating Equipment - CEC - Brochure 1993
	CL	Sand Lion Systems - CEC - Brochure 1993

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Howard et al.			
				Filing Date July 17, 2003		Group 1725	
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
QHX	CM	5,829,509	11/98	Crafton	164	5	
	CN	4,177,952	12/79	Rikker	241	40	
	CO	4,325,424	04/82	Scheffer	164	5	
	CP	4,499,940	02/85	Hall	164	36	
	CQ	6,112,803	09/00	Kruger	164	103	
	CR	4,817,920	04/89	Erfort, Jr.	266	252	
	CS	5,340,418	08/94	Wei	148	549	
	CT	5,536,337	07/96	Wei	148	549	
	CU	4,419,143	12/83	Ito et al.	148	3	
	CV	4,420,345	12/83	Ito et al.	148	3	
✓	CW	4,177,085	12/79	Chadwick et al.	148	2	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
QHX	CX	5825417	02/83	Japan	C21D	1/00	
	CY	WO 98/14291	04/98	PCT			
	CZ	2187398	09/87	UK	F27B	15/09	
	DA	WO 97/30805	08/97	PCT			
✓	DB	195 30 975	02/97	Germany	B22C 5/00	B22D 29/00	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
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EXAMINER'S SIGNATURE: P. H. Liu				DATE CONSIDERED: 6/15/04			



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	Applicant Howard et al.	
	Filing Date July 17, 2003	Group 175

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
f f d	DC	4,027,862	06/77	Schaefer et al.	266	160	
	DD	3,996,412	12/76	Schaefer et al.	13	20	
	DE	3,856,583	12/74	Sanders et al.	148	159	
	DF	4,620,884	11/86	Heath	148	128	
	DG	4,752,061	06/88	Dalton et al.	266	87	
	DH	3,675,905	07/72	Placek	263	2	
	DI	3,194,545	07/65	Smith	266	3	
	DJ	3,222,227	12/65	Baugh et al.	148	11.5	
	DK	3,432,368	03/69	Nakamura	148	12	
	DL	3,604,695	09/71	Steeper	266	5T	
✓	DM	3,794,232	02/74	Petri	226	50	

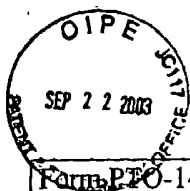
FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
f f d	DN	0546210A1	06/93	Europe	B22D 29/00	B22D 31/00		
↓	DO	2448573	02/79	France	C21D 9/00	1/34, 1/62		
↓	DP	1-91957	04/89	Japan				
↓	DQ	3-465	01/91	Japan	B22D	29/00		
↓	DR	1-122658	05/89	Japan	B22D	29/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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Form PTO-1449

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Attorney Docket No.
C152 1160.1Serial No.
10/621,639Applicant
Howard et al.Filing Date
July 17, 2003Group
25

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
R.H.K.	DS	4,021,272	05/77	Asai et al.	148	15	
	DT	4,098,624	07/78	Laird, Jr.	148	153	
	DU	4,255,133	03/81	Tanifuji et al.	432	24	
	DV	4,257,767	03/81	Price	432	24	
	DW	4,338,077	07/82	Shibayama et al.	432	11	
	DX	4,357,135	11/82	Wilde et al.	432	11	
	DY	4,457,789	07/84	Wilks	148	134	
	DZ	4,606,529	08/86	Tooch	266	80	
	EA	4,832,764	05/89	Merz	148	131	
	EB	4,878,952	11/89	Pillhoefer	148	1	
	EC	5,108,519	04/92	Armanie et al.	148	12.7A	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

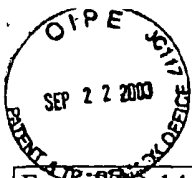
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6/15/04



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	Applicant Howard et al.	
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U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
7.10x	ED	5,108,520	04/92	Liu et al.	148	12.7R	
h	EE	5,115,770	05/92	Yen et al.	123	193.6	
	EF	5,120,372	06/92	Yen et al.	420	537	
	EG	5,178,695	01/93	LaSalle et al.	148	698	
	EH	5,226,983	07/93	Skinner et al.	148	549	
	EI	5,306,359	04/94	Eppeland et al.	148	511	
	EJ	5,308,410	05/94	Hurimura et al.	148	561	
	EK	5,312,498	05/94	Anderson	148	695	
	EL	5,336,344	08/94	Wei	148	549	
	EM	5,340,089	08/94	Heath et al.	266	87	
✓	EN	5,485,985	01/96	Eppeland et al.	266	87	

FOREIGN PATENT DOCUMENTS

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						Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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R. Leoni

DATE CONSIDERED:

6/15/04



Form PTO 1449	Attorney Docket No. C152 1160.1	Serial No. 10/621,639
	Applicant Howard et al.	
	Filing Date July 17, 2003	Group 1215

INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
J.H.K.	EO	5,514,228	05/96	Wyatt-Mair et al.	148	551	
	EP	5,518,557	05/96	Jones et al.	148	511	
	EQ	5,547,523	08/96	Blankenship, Jr. et al.	148	677	
	ER	5,551,670	09/96	Heath et al.	266	87	
	ES	5,571,347	11/96	Bergsma	148	550	
	ET	5,593,519	01/97	Blankenship, Jr. et al.	148	514	
	EU	5,643,372	07/97	Sainfort et al.	148	699	
	EV	4,490,107	12/84	Kimura et al.	422	11	
	EW	6,217,317	04/01	Crafton et al.	432	128	
	EX	5,156,800	10/92	Buchet et al.	266	99	
	EY	5,957,188	09/99	Crafton	164	5	
	EZ	6,336,809	01/02	Crafton et al.	432	207	
	FA	6,547,556	04/03	Crafton et al.	432	124	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
J.H.K.	EB	2,310,541	09/73	Germany	18c	1/00		
	FC	WO 00/36354	06/00	PCT	F27B	5/04		
	FD	0 610 028	08/94	Europe	F27D	3/00		
	FE	WO 02/094479	11/03	PCT	B22D	29/00		
	FF	WO 02/063051	08/02	PCT	B22D	29/00		

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					Applicant Howard et al.			
					Filing Date July 17, 2003		Group 725	
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
↓	FG	4,111,158	09/78	Reh et al.	122	4D		
	FH	4,198,764	04/80	Ellison et al.	34	32		
	FI	4,206,553	06/80	Ellison et al.	34	28		
	FJ	4,804,032	02/89	Wilkins	164	34		
	FK	5,477,906	12/95	Legge et al.	164	122.1		
	FL	5,735,334	04/98	Sutton et al.	164	130		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
↓	FM	0 077 511	10/82	Europe	B22D	29/00		
	FN	1,030,974	05/58	Germany	31c/32	B22d		
	FO	2,137,114	10/84	UK	B01J	8/26		
	FP	2,248,569	04/92	UK	B22d	29/00		
	FQ	3215809	11/83	Germany	B22D	29/00		
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>								
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Patent No. 449				Attorney Docket No. C152 1160.1		Serial No. 10/621,639	
INFORMATION DISCLOSURE CITATION				Applicant Howard et al.			
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U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
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	B						
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FOREIGN PATENT DOCUMENTS							
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	M	EP 0785402 A1	07/97	Europe	F27D	3/00	
	N	EP 1229137 A1	08/02	Europe	C21D	9/00	
	O	2 448 573	03/61	France	C21D	9/00	
	P	1 255 008	03/61	France	C21D		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	Q	"Mehrzweck-Schachtofen-Automat mit gasdichter beheizter Umsetzvorrichtung", Haertereitechnische Mitteilungen., Vol. 42, No. 3, 1987, pages 169-173, XP002265361, Carl Hanser Verlag, Munchen, German, ISSN: 0341-101X					
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INFORMATION DISCLOSURE CITATION				Applicant Howard et al.			
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